A/C Cycling Switch with measurement and verification

**Device Features**
- Cost effective two-way remote controllable & programmable
- Over four million individual addresses with remote programmability
- Visual indicators
- Remote test functions
- All devices are pre-wired for installation
- Devices are pre-programmed per customer specifications
- Ability to record and transmit Host Voltage, Amperage and Line Frequency of a load at predetermined customizable intervals and report that data on request
- Remote auditing and load shed verification and reporting
- Internal Diagnostics
- Cold Load Pick-up
- Receiver Visual Indicators
- Historical Event Counters
- Local override and opt-out - Secondary Option

**Power Provider Functionality**
- Control strategies may be defined for each group, subgroup, or individual devices
- Devices may be assigned to multiple sets of groups and subgroups
- On-board intelligence for smooth ramp-in and ramp-out of control across the population of devices
- Events in progress may be interrupted with a smooth ramp-out across the population of devices
- Customizable control events from various shed/cycling strategies
- Control events may be targeted for each or all group, subgroup, or individual devices
- Non-volatile data storage has capacity for over 30 days data when recorded at 15 minute intervals

**SPECIFICATIONS**
Circuitry: Microprocessor-controlled
Non-Volatile Memory: 512K EEPROM

COMMUNICATION OPTIONS
Type: Cisco 900 MHz Mesh Networks
Regulatory Compliance: FCC
Type: Cellular Dual-band CDMA 800 / 1900 MHz
Built in UDP/TCP/IP stack
Other Communication Paths Available: Zigbee

DIRECT LOAD CONTROLLER MEASUREMENTS
2-Wire or 3-Wire Single-Phase Measurements
RMS Voltage: Range: 192 - 288 VAC RMS
RMS Current: Range: 0 - 30 A RMS
Frequency: Range: 47 - 63 Hz

ADDRESS CODES
Individual Address: 4,194,304 (222) possibilities
Common Individual Address: Common to all units
Extended Address: 16,384 (214) possibilities
Upper Address: 128 (27) possibilities
Lower Address: 128 (27) possibilities
Address Assignment (Remote): From one up to 8 upper and associated lower extended addresses
Address Function: Controls load (Interrupts/Restores relay contact)

RELAY
Relay Output: 2 wires
18 gauge via the device’s ½” flexible conduit fitting or ¾” MNPT. One form B contacts with a rating 24VAC @ 3 amps.
Length specified at time of order.
Wire Insulation: 600V, 105°C (220°F).
Time Out Duration: One of 16 preprogrammed intervals from 6 minutes to 120 minutes
Time Out Tolerance: ±10 seconds, +20%/-0%, ±20%, user selectable
Test-on Duration Selection: Via codes

TEST FUNCTIONS
Receiver Operation Including
Relay Coil Continuity: LED indication in response to test command signal from a handheld transmitter or load management system transmitter
Propagation Test on LED: LED indication in response to propagation test signal or load management system transmitter
### LED INDICATIONS

<table>
<thead>
<tr>
<th>Steady State:</th>
<th>FUNCTIONS INDICATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver Operation Check - Test Command</td>
<td></td>
</tr>
</tbody>
</table>

**Duration (Test Commands Only):**
One of eight remotely programmable times from 2 seconds to 1 hour. Specified at time of order.

**Blink State:**
Whenever relay is interrupted

### POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>Power Input:</th>
<th>240VAC ±20% (192-288); 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power Connection: (2 Black) wires</td>
<td>18 gauge via the device’s fitting conduit</td>
</tr>
<tr>
<td>Wire Insulation:</td>
<td>600V, 105°C (220°F)</td>
</tr>
<tr>
<td>Wire:</td>
<td>18 gauge standard UL 1015</td>
</tr>
<tr>
<td>Internal DC Power:</td>
<td>+5VDC derived from 240 VAC/10 VAC step down transformer</td>
</tr>
<tr>
<td>Power Consumption:</td>
<td>7.5 watts maximum at 240 VAC with full load</td>
</tr>
</tbody>
</table>

### CONTROL DEVICE ENCLOSURE

<table>
<thead>
<tr>
<th>Type:</th>
<th>High-impact molded Lexan® with neoprene enclosure gasket for raintight operation. Meets NEMA IV requirements with gasket and snap latch construction. Provision for utility meter seal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td>6 3/8&quot; X 8 3/8&quot; X 2 7/8&quot; – 1.2 lbs.</td>
</tr>
<tr>
<td>Mounting:</td>
<td>Mount in an upright position direct to air conditioner housing or to conduit box. Hangers are a part of the casing, required area is 8&quot; X 8 3/8&quot; X 8 1/2&quot;.</td>
</tr>
<tr>
<td>Tinted Lid:</td>
<td>For LED observation</td>
</tr>
</tbody>
</table>

### OPERATING ENVIRONMENT

<table>
<thead>
<tr>
<th>Relative Humidity:</th>
<th>Up to 95% (non-condensing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature:</td>
<td>-30 °C to 70 °C</td>
</tr>
<tr>
<td>Storage Temperature:</td>
<td>-40 °C to 85 °C</td>
</tr>
</tbody>
</table>

### MISCELLANEOUS

<table>
<thead>
<tr>
<th>Surge Withstand Capability:</th>
<th>Meets and exceeds ANSI C37.90a, 1974 requirements</th>
</tr>
</thead>
</table>
| Automated Measurement and Verification Options: | » Verified Load Shed  
» Remote Auditing  
» Tamper Evident  
» Spinning Reserve  
» Report Auditing  
» Reporting |

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All devices are 100% Factory Tested and Inspected in accordance with Factory Acceptance Testing Procedures mutually determined with each utility.

Specifications subject to change

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INSTALLATION OPTIONS

¾" NPT Fitting

90° Elbow

½" Flexible Seal Tight Fitting